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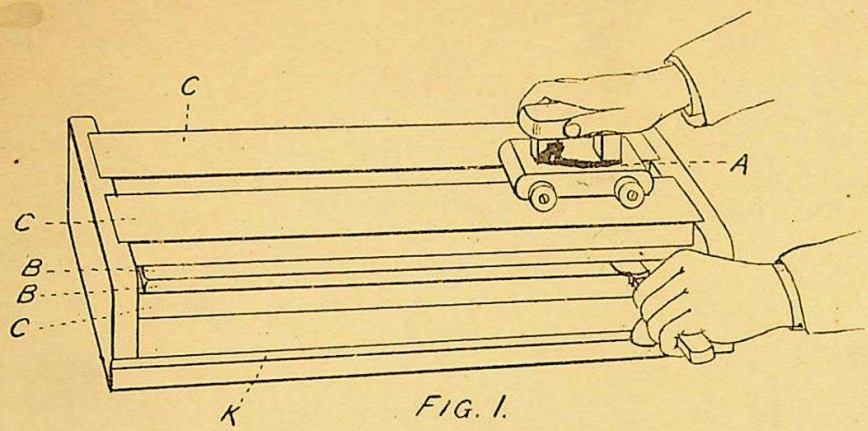

FIG. 1.

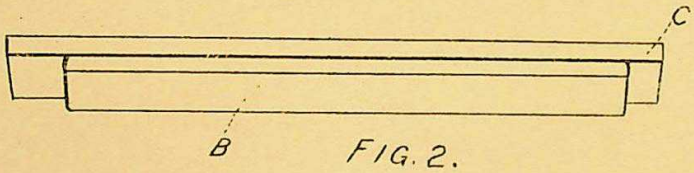

FIG. 2.

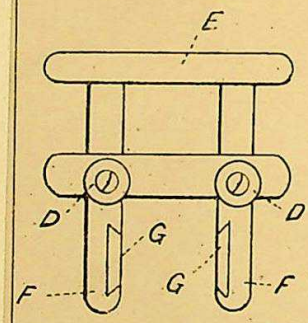

FIG. 3.

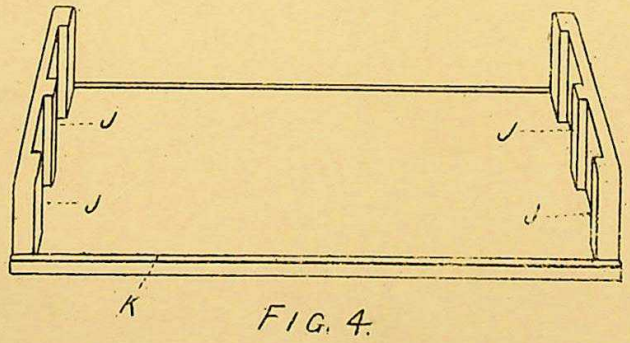

FIG. 4.

[This Drawing is a reproduction of the Original on a reduced scale]

LONDON: Printed by DARLING and SON Ld.
for Her Majesty's Stationery Office 1891.

Malby & Sons, Photo-Litho.

51/16
51. Grinding & Polishing.
Cutlery Scourers.

N° 14,246 A.D. 1891

Date of Application, 24th Aug., 1891
Complete Specification Left, 11th Sept., 1891—Accepted, 17th Oct., 1891

PROVISIONAL SPECIFICATION.

Improvements in Knife Cleaning Machines.

I, FRANK JOSEPH LAWRENCE, of Number 50 Bromley Road, Beckenham, in the County of Kent, Surveyor, do hereby declare the nature of this invention to be as follows :—

The essential features of my improvements in knife cleaning machines are :—

I. The carrying or maintaining knives upon or between cleaning buffers by the blades instead of by the handles.

II. My means of effecting the cleaning of knives transversely or directly across the blades.

III. The avoidance of all springs, screws or other fixed mechanical appliances for putting pressure upon the buffers.

The above results are obtained in the following manner :—

In place of making each of the cleaning buffers in one continuous piece I provide one or more channels or grooves between sections of my cleaning buffers and by means of a "propeller," as hereinafter described, I carry the blade of a knife to and fro upon or between the cleaning buffers in a direction transversely to its length.

The propeller is a little instrument having a handle and with prongs or forks which work within the channels or grooves and across the blade of a knife. It is provided with rollers or other suitable contrivances which act upon the knife or the cleaning buffers and which apply the requisite pressure from the hand directly upon or over the blade of a knife while being cleaned. In some cases the method of my invention may be reversed by fixing the blades of knives by prongs or forks which act in the channels or grooves and causing the cleaning buffers to move to and fro.

I do not bind myself to any particular method of carrying out my invention, but I preferably make my machines somewhat in the form of a single or double knife board with a bottom tray for receiving the surplus or waste knife powder and having four longitudinal laths or pieces of wood fitting into suitable recesses at each end and carrying the cleaning surfaces at one or both sides. In this case there is only one channel or groove extending down the centre between the two pairs of cleaning buffers.

Dated this 22nd day of August 1891.

FRANK J. LAWRENCE.

COMPLETE SPECIFICATION.

Improvements in Knife Cleaning Machines.

FRANK JOSEPH LAWRENCE, of No. 50 Bromley Road, Beckenham, in the County of Kent, Surveyor do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement :—

In place of making each of the cleaning buffers in one piece I provide one or more channels or grooves between sections of the cleaning buffers, and, by means of a "propeller" as hereinafter described I carry the blade of a knife to and fro upon or between the cleaning buffers in a direction transversely to its length. The "propeller" is an instrument furnished with a handle and prongs or forks which forks work within the channel and across the blade. It is also provided with rollers or other suitable contrivances, so that when the knife is inserted between

the forks, the propeller is made to move the knife and press upon the cleaning buffers simultaneously.

I preferably make the machine somewhat in the form of a single or double knife board with a bottom tray for receiving the waste powder, and having longitudinal pieces carrying the cleaning buffers fitting into recesses at each end.

Fig. 1. is view of the whole contrivance with "propeller" A and knife in position. In this case there are two pairs of cleaning buffers B and one channel H between them.

Fig. 2. is one section of cleaning buffer B on back C.

Fig. 3 is front view of propeller with handle E rollers D and forks F. G, G are little buffers of leather or other soft tough material dovetailed into forks, so that they can be easily inserted and removed. The forward buffer can be dispensed with if desired.

Fig. 4 is frame of knife board showing recesses J and ledge K for holding waste powder.

The knife is inserted between prongs F. The propeller is then pressed downwards and forwards so that the knife is moved transversely along the cleaning buffers B and these said buffers are pressed more closely together. It is advisable to use very little force in the backward stroke.

Having now particularly described and ascertained the nature of my said invention and in what way the same is to be performed I declare that what I claim is:

1. In a knife cleaning machine the introduction of one or more channels between different sections of cleaning buffers for the purpose of placing therein forks or the like to propel the blades of knives between or along the said cleaning buffers, substantially as described.

2. The "propeller" with rollers or slides and forks for the purpose of moving the knives to and fro and simultaneously bringing pressure to bear on the blades.

3. The knife cleaning machine with propeller substantially as described.

Dated this 11th day of September 1891.

W. H. MUNNS,
Agent for Applicant.

London: Printed for Her Majesty's Stationery Office, by Darling & Son, Ltd.—1891.